

Abstract

An audio coupler device for communication with a T-coil in a hearing aid is described to fit inside the receiver section of a handset as defined. The coupler device is so mounted inside the receiver section as to provide strong inductive coupling with a T-coil inside the hearing aid to deliver audio signals from the handset to the person wearing the hearing aid. The coupler device has a coil and a magnetic core that is preferably formed of a ferromagnetic material and a capacitor is placed in series with the coil. The coupler device in turn is connected in series with the speaker so as to reduce loading of circuitry inside the handset and driving the speaker. The coupler device can be mounted in many different handset devices and is preferably mounted to concentrate an audio inductive field at the T-coil in a hearing aid worn by a person using the handset device.